

LA-UR-21-30423

Approved for public release; distribution is unlimited.

Title: 1st Quarter Emergency Drill at SERF Player's Briefing

Author(s): Fresquez, Lance Wade
Grano, Paul Raymond

Intended for: Briefing for an Emergency Drill

Issued: 2021-10-20

Disclaimer:

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Triad National Security, LLC for the National Nuclear Security Administration of U.S. Department of Energy under contract 89233218CNA000001. By approving this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.



1st Quarter Emergency Drill at SERF

Player's Briefing

Drill Date: Week of November 9, 2021

UNCLASSIFIED

Overview

- Purpose
- Focus Areas
- General Drill Information
- Drill Roles and Responsibilities
- Drill Safety and Security
- Very Important Points (VIP)
- Hotwash

UNCLASSIFIED

Purpose

- The purpose of this briefing is to provide drill information to players participating in the 1st Quarter Emergency Drill at SERF as follows:
 - Communicate general drill information and conduct expectations;
 - Outline roles and responsibilities; and
 - Provide safely and securely guidance to ensure unsafe act or security violation does not occur during the drill.

UNCLASSIFIED

Purpose of Drill

- The purpose of the 1st Quarter Emergency Drill at SERF is to demonstrate and evaluate the ability of the LANL Emergency Response Organization (ERO) to recognize, respond to, contain, and control a simulated Operational Emergency in accordance with:
 - DOE Order 151.1 D, *Comprehensive Emergency Management System*
 - LANL Emergency Management Program
 - LANL Emergency Plans and Procedures
 - Facility Emergency Plans and Procedures

UNCLASSIFIED

Slide 4

Focus Areas (IRC)

- **LANL-EMD-IRC.1** Given an event, the Incident Command (IC) vehicles, equipment, communications, and reference materials are serviceable, operational, and/or current in accordance with ERO-EPIP-100, *LANL Incident Commander* and/or the National Incident Command System (NIMS).
- **LANL-EMD-IRC.2** Given notification of an emergency event the LANL Incident Response Commander (IRC) obtains and communicates incident information to include safe route information in accordance with ERO-EPIP-100, *LANL Incident Commander* and FROG-260, *Incident Commander Field Response Operating Guidelines*.
- **LANL-EMD-IRC.3** Given an event, categorize and classify the event in accordance with ERO-EPIP-210, *Operational Emergency Categorization/Classification*, ERO-EPIP-301, *Severe Event Procedure*, ERO-EPIP 215, *Protective Action Guides*, and FROG-260, *Field Response Operating Guidelines: Incident Commander*.
- **LANL-EMD-IRC.4** Given an operational emergency, implements protective actions and protective action recommendations in accordance with ERO-EPIP 215, *Protective Action Guides* and ERO-EPIP-160, *Emergency Notifications*.

UNCLASSIFIED

Slide 5

Focus Areas (IRC)

- **LANL-EMD-IRC.5** Given a condition that affects or could negatively affect the Laboratory, activate the Emergency Operations Center in accordance with ERO-EPIP-205, *Emergency Operations Center Operations*.
- **LANL-EMD-IRC.6** Given deployment to the event scene, the Incident Response Commander (IRC) responds safely to the event scene, establishes incident command or enters into unified command with response elements on scene, assesses the situation, and establishes and maintains communication with response elements and the LANL EOC in accordance with ERO-EPIP-100, *LANL Incident Commander* and FROG-260, *Field Response Operating Guidelines: Incident Commander*.
- **LANL-EMD-IRC.7** Given arrival at the event scene, establish and operate the incident command post in accordance with ERO-EPIP-100, *LANL Incident Commander* and FROG-260, *Field Response Operating Guidelines: Incident Commander*.
- **LANL-EMD-IRC.8** Given an established NIMS Incident Command System, develop and implement an incident action plan in accordance with the ERO-EPIP-100, *LANL Incident Commander* and FROG-260, *Field Response Operating Guidelines: Incident Commander*.

UNCLASSIFIED

Slide 6

Focus Areas (EOSC)

- **LANL EOSC.1** Given an event, EOSC staff receives and documents initial event information in accordance with ERO-FORM-210, *Initial Call Line of Inquiry*, and EOSC-CKLST-027, *EOSC All Hazards Incident Response Checklist*.
- **LANL EOSC.2** When directed, EOSC staff implements protective actions on pre-determined Emergency Action Levels (EAL) in accordance with ERO-EPIP 215, *Protective Action Guides*, ERO-EPIP-210, *Operational Emergency Categorization/Classification*, and ERO-EPIP-160, *Emergency Notifications*.
- **LANL EOSC.3** Given an Operational Emergency, EOSC staff develops and transmits ERO-FORM-009, Operational Emergency Notification Form, to applicable external agencies in accordance with ERO-EPIP-160, *Emergency Notifications*.
- **LANL EOSC.4** Upon the declaration of an Operational Emergency or when directed, EOSC staff activates the Emergency Operations Center in accordance with ERO-EPIP-205, *Emergency Operation Center Operations* and ERO-EPIP-160, *Emergency Notifications*.

UNCLASSIFIED

Slide 7

Focus Areas (EOSC)

- **LANL EOSC.5** Given the transmission of ERO-FORM-009, *Operational Emergency Notification Form* to offsite agencies, the EOSC staff verifies receipt of Protective Action Recommendations (PARs) by using ERO-FORM-250, *Los Alamos National Laboratory Operational Emergency Notification Verification Form* in accordance with ERO-EPIP-160, *Emergency Notification*.
- **LANL EOSC.6** Given an emergency, EOSC staff completes incident notifications and reporting in accordance with ERO-EPIP-160, *Emergency Notifications*.

UNCLASSIFIED

Slide 8

Focus Areas (LANL HAZMAT)

- **LANL-HAZMAT.1** Given an event, LANL HAZMAT equipment, communications, and reference materials are serviceable, operational, and/or current in accordance with ER-630-001, *HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead*.
- **LANL-HAZMAT.2** Given a hazardous material emergency and request for HAZMAT response, HAZMAT Group Supervisor activates the HAZMAT team and responds safely to the event scene in accordance with ER-630-001, *HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead*.
- **LANL-HAZMAT.3** Upon HAZMAT activation, the HAZMAT Group Supervisor (HMGS) assigns a HAZMAT safety officer and other response positions, as needed, in accordance with the ER-630-001, *HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead*, ER-630-003, *Emergency Response HAZMAT Safety Officer Operation*.
- **LANL-HAZMAT.4** Prior to or upon deployment request safe approach route from EOSC or IRC, in accordance with the ER-630-001, *HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead*, ER-630-003

UNCLASSIFIED

Slide 9

Focus Areas (LANL HAZMAT)

- **LANL-HAZMAT.5** Given a HAZMAT response, develop and implement a safety plan in accordance with ER-630-001, *HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead* and ERO-630-003, *Emergency Response HAZMAT Safety Officer Operation Guide*.
- **LANL-HAZMAT.6** Conduct Pre-entry Safety Brief in accordance with the ER-630-001, HAZMAT Hazardous Materials Group Supervisor and HDT Response Lead, ER-630-003.

UNCLASSIFIED

Slide 10

Focus Areas (LAFD)

- **LAFD.1** Given a 911 call or emergency alarm, safely respond to event scene in accordance with LAFD Fire Chiefs Directives 400.15.
- **LAFD.2** Upon arrival at the event scene, establish incident or unified command in accordance with LAFD Fire Chiefs Directive 400.15 and the National Incident Management System.
- **LAFD.3** Given deployment to the event scene, establish and maintain communications with response assets and the LANL EOC in accordance with the National Incident Management System.
- **LAFD.4** Given the initial assessment, determine (or validate) and implement event scene protective actions to include accountability in accordance with the National Incident Management System.

UNCLASSIFIED

Focus Areas (LAFD)

- **LAFD.5** Given arrival at the event scene, establish and operate the incident command post in accordance with the National Incident Management System.
- **LAFD.6** Given an established ICS, develop the Incident Action Plan in accordance with LAFD Fire Chiefs Directive 400.15 and the National Incident Management System.
- **LAFD.10** Given direction from the Incident Commander, conduct rescue operations in accordance with LAFD Fire Chiefs Directives.
- **LAFD.16** Given injured and/or contaminated patients, assess, treat, decontaminate, and transport patients in accordance with the State of New Mexico medical protocols.

UNCLASSIFIED

Slide 12

Focus Areas (SERF Workers)

- **LANL-GEN.EMPL.1** Given the observation of an emergency condition, building resident reports the conditions in accordance with P1201-4, *LANL Incident Reporting Procedures and Protective Actions*.
- **LANL-GEN.EMPL.2** Given a building evacuation notification, building residents evacuate the building in accordance with P1201-4, *LANL Incident Reporting and Protective Actions*.
- **LANL-GEN.EMPL.6** Given a medical emergency, building residents respond and report the condition in accordance with applicable and current procedures.
- **LANL-GEN.EMPL.7** Given protective actions, building residents conduct accountability in accordance with P1201-4, *LANL Incident Reporting Procedures and Protective Actions*.
- **LANL-GEN.EMPL.9** Given a hazardous gas alarm, building residents implement protective action procedures in accordance with the appropriate Building Emergency Plan (UI-BEP-016, R5, *SERF BEP*)

UNCLASSIFIED

Slide 13



General Drill Information

UNCLASSIFIED

General Drill Rules of Conduct

- **The following organizations will be prestaged:**
 - SERF Workers
 - All other organizations will respond through real-world channels as the drill progresses
- All participants are to act in a professional manner at all times.
- Participants will comply with their respective environmental, health, safety, and security plans and procedures, as well as appropriate Federal, State, and Local environmental health and safety regulations.

UNCLASSIFIED

Slide 15

Drillsmanship

- All players will observe the rule of drillsmanship.
- **Drillsmanship** is the act of responding to the scenario as if events are real and taking the proper actions or verbalizing what actions you would take if not readily apparent to a Controller.

UNCLASSIFIED

Principles of Good Drillsmanship

- Understand the scope of the drill
- Recognize that the drill has objectives that must be satisfied and may require doing things that may not seem realistic
- Verbalize actions taken
- Recognize that a Controller cannot give credit for an unspoken thought process
- Talk and act out actions as much as possible
- Act on all Controller instructions, unless safety or security could be compromised

UNCLASSIFIED

Slide 17

Simulations

- Simulations are pre-identified in the drill planning process and the control organization is responsible for ensuring those actions are simulated.
- Respond as though this is a real emergency.
- **Do not simulate any activities unless directed by your Controller.**

UNCLASSIFIED

Identification of Drill Participants

- All members of the drill organization will wear navy blue vests with title/position listed on the lapel and back of the vest
- Observers will wear yellow vests
- Employees exempt from drill will wear tan vests

NOTE: If an employee has not made previous arrangements to be exempted, they are considered a player. Exemptions must be approved by their management.

UNCLASSIFIED

Drill Communication

- Current phone numbers outlined in plans/procedures should be used unless directed otherwise by a controller/evaluator and/or the Players Communications Directory.
 - **(505) 661-3437 is used in place of 911**
- Use **“This is an Drill Message”** before and after all communications – radio, phone, pager, PA announcements, etc.
- Do Not use the Emergency Channel – this is reserved for real emergencies only.

UNCLASSIFIED

Drill Expectations

- Play as if the event was real.
- Controllers will allow “free play” unless:
 - Safety and security are compromised;
 - Precludes objectives from being demonstrated; and/or
 - Exceed established drill scope or limitations.
- Coaching and discussion are allowed and encouraged during a drill.
- Contact the nearest controller if an observer is interfering with play.

UNCLASSIFIED



Drill Roles and Responsibilities

UNCLASSIFIED

Slide 22

Responsibilities of Players

- Players have an active role in responding to scenario events by performing their regular roles and responsibilities during the drill.
- Players should not have prior knowledge of the drill scenario.
- Players will comply with their current standard response procedures when responding to drill events.
- Players are to verbalize their actions before taking action to make Controllers aware of the their actions.
- All drill participants are required to follow all existing safety guidelines for the use of protective equipment in designated areas.

UNCLASSIFIED

Slide 23

Responsibilities of Controllers

- Controllers are first and foremost responsible for monitoring safety and security in their drill areas.
- Controllers provide direction and control of the drill, and monitor the sequence of events as they unfold.
- Controllers also initiate certain actions in order to ensure the continuity of events described in the drill scenario.
- Controllers are subject matter experts who observe, monitor, and document responder's performance.

UNCLASSIFIED

Responsibilities of Observers

- Observers are individuals with permission to view all or selected portions of drill play for educational purposes.
- Observers will not interact with players, contribute information or opinions, or interfere with the drill in any other way.
- Observers will direct all questions or comments related to the exercise to the nearest Controller. If the controller is busy with exercise duties; then, it is expected that the Observer wait until the controller is available to ask the questions.

UNCLASSIFIED

Responder and Controller Interaction

- Players must adhere to Controller instructions unless those instructions compromise safety or security. Notify the Controller that the instructions are unsafe and/or compromises security or call an Drill Freeze and then notify the Controller).
- Players must earn information from Controllers by responding as if the drill events are “real”.
- Controllers will only provide players with information they are specifically designated to disseminate. Players are expected to obtain other necessary information through existing emergency information channels.
- Controllers may deliver contingency injects to ensure certain actions are carried out in order to ensure drill flow.

UNCLASSIFIED

Slide 26

Responder and Controller Interaction

- If there is a disagreement with the instruction the Controller is providing the player, the responder will comply with the instruction (unless it compromises safety or security) and make a note to discuss the disagreement at the end of the drill.

The decisions of the Controllers are final.

Players must abide by Controller decisions.

- Players and Controllers should not engage in casual conversation.

UNCLASSIFIED



Drill Safety and Security

UNCLASSIFIED

General Drill Safety

- All participants must complete an drill safety and security briefing.
 - This player briefing serves as your required safety and security briefing.
- Real-world emergencies always take precedence over drill activities.
- The primary responsibility of every participant in an drill is the safe conduct of the drill.

UNCLASSIFIED

General Drill Safety (cont.)

- If any drill participant observes safety or security being compromised, they are to loudly state “**DRILL FREEZE**” and contact the nearest Controller
- Drill participants will observe all hazard postings, signs, lights, and warning announcements
- For fire or medical emergencies, participants and observers are to dial 911 from the nearest available phone
 - If they are using a cell phone to contact 911, they must let the dispatcher know they are reporting an emergency in Los Alamos County

UNCLASSIFIED

Slide 30

General Drill Safety (cont.)

- It is expected that each participant will monitor his or her own physical conditions for any signs of overexertion, heat/cold stress, etc.; however, if a participant notices another person showing symptoms of physical distress, they should immediately bring it to the attention of a controller
 - All injuries, no matter how slight, must be immediately reported to the nearest Controller
 - Controllers will freeze drill play anytime a participant appears to be in distress
 - Controllers will ensure that emergency response personnel are allowed the opportunity to rest whenever necessary
- Field activities will be evaluated and may be suspended in the event of hazardous weather

UNCLASSIFIED

Motor Vehicle Safety

- Drill participants will use only designated vehicles during the drill.
- All traffic laws and control devices (e.g., signs, pavement markings cones, etc.) will be strictly followed.
- All vehicles will be equipped with seat belts and all participants must wear them.
- Drivers will be alert to pedestrian traffic and other non-participating vehicles in and around the roadway and in tight spaces.
- Watch for moving response vehicles in the drill play area.
- Keep a safe distance away from any moving vehicle.
- Ensure the driver sees you before you make any movements near vehicles.
- All responding units will respond to the event as normal traffic
 - Emergency lights may be turned on once on-scene

UNCLASSIFIED

Drill-Specific Safety

- All personnel will observe all safety postings, unless directed by a Controller.
- All LANL COVID safety protocols will be followed.

UNCLASSIFIED

General Drill Security

- All personnel will observe all security postings

UNCLASSIFIED

Very Important Points – (VIPs)

- Respond to the drill as if events are “real.”
 - Drillsmanship is the key to success.
- **Do not simulate any activity unless directed by a Controller.**
- Use “THIS IS A DRILL MESSAGE” before and after any drill communication via radio and/or phone. This also includes FAX, email, and printed communications.
- If you observe safety or security being compromised, you are to loudly state “DRILL FREEZE” and contact the nearest Controller.
- Real-world emergencies always take precedence over drill activities.

UNCLASSIFIED

Post Drill Players Hotwash

- A Hotwash will occur approximately 15 minutes following Drill termination.
 - Verbalize any safety or security concerns immediately.
- A Controller will alert you to the start time and location.
- The Hotwash provides you the opportunity to discuss strengths and areas for improvement, and focuses on:
 - Training
 - Procedures/checklists
 - Equipment
 - Facility support systems
 - Drill design
- Your participation is important and encouraged.
 - Being self-critical is key

UNCLASSIFIED

Slide 36

Receive Credit

- Please send an email to: lancef@lanl.gov stating that you have read and understand the content of this briefing.
- For LAFD, this briefing may be delivered in-person prior to the drill by the LAFD Controller (complete hard copy roster).

UNCLASSIFIED

Questions?



POCs: Lance Fresquez, 505-695-6166 and
Paul Grano, 505-500-2049

UNCLASSIFIED